

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-23. Cancelled

24. (Currently amended): An isolated DNA ~~molecule comprising a~~ DNA sequence selected from the group consisting of:

- a) nucleotides 1202 through 1543 of Figure 2;
- b) nucleotide 1252 through 1543 of Figure 2;
- c) ~~nucleotides 1279 through 1626 of Figure 3;~~
- ~~d) nucleotides 1333 through 1626 of Figure 3;~~
- ~~e) nucleotides encoding amino acids 283 through 396 of Figure 2;~~
- ~~f) d) nucleotides encoding amino acids 299 through 396 of Figure 2;~~
- ~~g) nucleotides encoding amino acids 293 through 408 of Figure 3;~~
- ~~h) nucleotides encoding amino acids 311 through 408 of Figure 3; and~~
- i) e) naturally occurring allelic sequences and equivalent degenerative codon sequences variants of a) through d) of (a) through (h).

25. (Previously presented): An isolated DNA ~~molecule comprising a~~ DNA sequence of nucleotides comprising nucleotides 1202 through 1543 of Figure 2.

26. (Previously presented): An isolated DNA ~~molecule comprising a~~ DNA sequence of nucleotides comprising nucleotides 1252 through 1543 of Figure 2.

27-28. Cancelled

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29. (Previously presented): An isolated DNA ~~molecule comprising a DNA~~ sequence ~~of nucleotides~~ comprising nucleotides encoding amino acids 283 through 396 of Figure 2.
30. (Previously presented): An isolated DNA ~~molecule comprising a DNA~~ sequence ~~of nucleotides~~ comprising nucleotides encoding amino acids 299 through 396 of Figure 2.
- 31-32. Cancelled
33. (Currently Amended): An isolated DNA sequence that ~~[encoding a BMP-2 protein which]~~ hybridizes to a DNA sequence ~~of claim 30~~ comprising nucleotides 1252 to 1543 of Figure 2 under stringent hybridization conditions, wherein said DNA sequence encodes a bone morphogenetic protein characterized by the ability to induce the formation of cartilage and/or bone tissue.
34. Cancelled
35. (Previously presented): A vector comprising a DNA ~~molecule~~ sequence of claim 24 in operative association with an expression control sequence therefore.
36. (Previously presented): A vector comprising a DNA ~~molecule~~ sequence of claim 33 in operative association with an expression control sequence therefore.
37. Cancelled
38. (Previously presented): A host cell transformed with a vector of claim 35.
39. (Previously presented): A host cell transformed with a vector of claim 36.
40. Cancelled
41. (Previously presented): An isolated DNA molecule ~~comprising a DNA~~ selected from the group consisting of ATCC deposits 40345 and 40342.

42. (Previously presented): A method for producing a BMP-2 protein said method comprising the steps of:

- a) culturing a host cell transformed with a DNA sequence of claim 33, and
- b) recovering said BMP-2 protein.

43-49. Cancelled

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